Generalized linear mixed models (GLMMs) for predicting mean Bray-Curtis dissimilarity

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model 1** | | **Model 2** | | **Model 3** | | **Model 4** | |
| **Predictors** | **Estimate** | **CI [t-statistic]** | **Estimate** | **CI [t-statistic]** | **Estimate** | **CI [t-statistic]** | **Estimate** | **CI [t-statistic]** |
| Intercept | **1.472 \*\*\*** | **(1.355 - 1.589 ) [24.698]** | **0.436 \*\*\*** | **(0.268 - 0.603 ) [5.106]** | **0.541 \*\*\*** | **(0.382 - 0.699 ) [6.699]** | **0.488 \*\*\*** | **(0.434 - 0.541 ) [17.832]** |
| Elevation | -0.000 | (-0.000 - 0.000 ) [-0.887] | -0.000 | (-0.000 - 0.000 ) [-0.553] | -0.000 | (-0.000 - 0.000 ) [-0.698] |  |  |
| ACI | **-0.041 \*\*\*** | **(-0.056 - -0.026 ) [-5.365]** | **0.129 \*\*\*** | **(0.122 - 0.135 ) [38.572]** | **0.140 \*\*\*** | **(0.135 - 0.146 ) [53.140]** | **0.140 \*\*\*** | **(0.135 - 0.146 ) [53.143]** |
| LT | **-0.275 \*\*\*** | **(-0.302 - -0.248 ) [-20.004]** | **0.048 \*\*\*** | **(0.027 - 0.070 ) [4.461]** | **0.018 \*\*** | **(0.005 - 0.030 ) [2.736]** | **0.018 \*\*** | **(0.005 - 0.030 ) [2.735]** |
| LPS | **0.095 \*\*\*** | **(0.071 - 0.119 ) [7.802]** | -0.003 | (-0.022 - 0.016 ) [-0.309] |  |  |  |  |
| LMA | **-0.020 \*** | **(-0.037 - -0.003 ) [-2.309]** | **-0.165 \*\*\*** | **(-0.175 - -0.155 ) [-32.421]** | **-0.143 \*\*\*** | **(-0.150 - -0.136 ) [-41.380]** | **-0.143 \*\*\*** | **(-0.150 - -0.136 ) [-41.396]** |
| LBI | **-0.055 \*\*\*** | **(-0.063 - -0.046 ) [-12.920]** | **-0.037 \*\*\*** | **(-0.046 - -0.029 ) [-8.814]** | **-0.017 \*\*\*** | **(-0.023 - -0.012 ) [-6.468]** | **-0.017 \*\*\*** | **(-0.023 - -0.012 ) [-6.482]** |
| ***Random effects*** |  |  |  |  |  |  |  |  |
| N | 2250 |  | 2250 |  | 2400 |  | 2400 |  |
| logLik | 3923.846 |  | 4774.024 |  | 5356.469 |  | 5365.113 |  |
| AIC | -7829.691 |  | -9508.049 |  | -10670.938 |  | -10690.226 |  |
| *Significance levels are represented by asterisks [p < 0.05 (\*), p < 0.01 (\*\*), p < 0.001 (\*\*\*), and p < 0.0001 (\*\*\*\*)]. T statistics in brackets.* | | | | | | | | |